

1c997 U.S. PRO  
09/815746  
FOI/03/23/01

| Class | Subclass |
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**ISSUE CLASSIFICATION**

PATENT NUMBER

# U.S. UTILITY Patent Application

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| O.I.P.E.<br>SCANNED <i>17-0</i> Q.A. <i>EW</i> | PATENT DATE |
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| APPLICATION NO.<br>09/815746 | CONT/PRIOR<br>D | CLASS<br>360 | SUBCLASS<br>324.12 | ART UNIT<br>2652 | EXAMINER<br>Nguyen, Bao |
|------------------------------|-----------------|--------------|--------------------|------------------|-------------------------|

## APPLICANTS

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Zheng Gao  
Ananth Naman  
Dean Markuson

**TITLE**

Spin valve head using high-coercivity Hard Bias layer

PTO-2040  
12/99

## ISSUING CLASSIFICATION

| ORIGINAL                     |  |          |  |  | CROSS REFERENCE(S) |                                   |  |  |  |  |  |  |
|------------------------------|--|----------|--|--|--------------------|-----------------------------------|--|--|--|--|--|--|
| CLASS                        |  | SUBCLASS |  |  | CLASS              | SUBCLASS (ONE SUBCLASS PER BLOCK) |  |  |  |  |  |  |
| INTERNATIONAL CLASSIFICATION |  |          |  |  |                    |                                   |  |  |  |  |  |  |
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| <input type="checkbox"/> <b>TERMINAL<br/>DISCLAIMER</b>  | <b>DRAWINGS</b>                              |                    | <b>CLAIMS ALLOWED</b>             |                     |
|  | <b>Sheets Drwg.</b>                          | <b>Figs. Drwg.</b> | <b>Print Fig.</b>                 | <b>Total Claims</b> |
| <input type="checkbox"/> The term of this patent subsequent to _____ (date) has been disclaimed.<br><br><input type="checkbox"/> The term of this patent shall not extend beyond the expiration date of U.S Patent. No. _____<br>_____<br>_____  | _____<br>(Assistant Examiner) (Date)         |                    | <b>NOTICE OF ALLOWANCE MAILED</b> |                     |
|  |  |                    | <b>ISSUE FEE</b>                  |                     |
|  | _____<br>(Primary Examiner) (Date)           |                    | <b>Amount Due</b>                 | <b>Date Paid</b>    |
| <input type="checkbox"/> The terminal ____months of this patent have been disclaimed.  | _____<br>(Legal Instruments Examiner) (Date) |                    | <b>ISSUE BATCH NUMBER</b>         |                     |
| <b>WARNING:</b><br>The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368 Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only. |  |                    |                                   |                     |

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